UGIC Technical Workshops

Contributed by UGIC Board
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New this year, technical workshops are free to all conference registrants subject to availability and room space.

Workshop sessions will be held each morning (W, Th, & F), with a variety of workshops offered in each of these sessions.

Workshops schedule: Wed 8:15-9:45
Thur 8:30 - 10:00
Fri 8:30 - 10:00
 ArcMap Tips and Tricks I (ESRI)
 ArcMap Tips and Tricks I (ESRI)
 ArcMap Tips and Tricks II (ESRI)
 Optimizing ArcGIS Server Map Services (ESRI)
 ArcMap Tips and Tricks II (ESRI)
 Working with Spatial Data (ESRI)
  Network Analysis (M. Jarman) -FULL- Python I: Language Basics (K. Bell) -FULL- Python II: Pairing with ArcGIS (K.Bell) VBA + Geodatabase (B. Granberg)
   Publishing GIS to Google Earth, (B. Plewe) VBA + Geodatabase (B. Granberg)

Workshop Descriptions:

ArcMap Tips and Tricks I (Instructor: Heather Paskevic, ESRI)

The first part of this workshop focuses on general desktop tricks, data management with ArcGIS, editing, and cartography. This fast-paced workshop is designed for frequent ArcGIS desktop users who would like to get most out of ArcMap and ArcCatalog.

ArcMap Tips and Tricks II (instructor: Jeremiah Lindemann, ESRI)

 The second part of this two-part series covers the advanced desktop topics of geoprocessing, extending the desktop using VBA, and utilizing developer samples and web-based resources. A basic understanding of
 geoprocessing with ArcToolbox tools would be helpful. The last half is intended for non-developers who want to make use of additional functionality or would like to see where customization takes place to start learning programming with ArcGIS Desktop. Attendees who are only interested in the aforementioned topics could attend this session without attending ArcMap Tips and Tricks I.

Network Analyst (instructor: Matt Jarman) This workshop will demostrate ArcGIS Network Analyst, a powerful extension that provides network-based spatial analysis including routing, travel directions, closest facility, and service area analysis. Industries that benefit from ArcGIS Network Analyst include transportation, logistics, health care, public safety, education, utilities, local government, business, and many more.

Optimizing ArcGIS Server Map Services (Instructor: Jeremiah Lindemann, ESRI)

There are many factors that can impact the performance of your ArcGIS Server based web applications. This workshop will review some of the primary performance factors and describe best practices for optimizing your web application. Discussions on optimizing your .mxd before you publish will be discussed first, followed by creating and utilizing caching for quick performance.

Publishing GIS to Google Earth (instructor: Brandon Plewe, BYU)

Google Maps and Google Earth (and other geobrowsers) provide a great opportunity to publish geographic information online without the expense and time of building your own server. We will discuss some of the different geobrowsers out there, introduce the KML format, and look at several programs for converting GIS data to KML and other formats. If you have tried this before, we would be happy to hear your experiences.

Laptops will not be provided, but if you bring your own laptop with GIS and data, there will be some opportunities to try things out in the workshop.

- WORKSHOP FULL - Python I: Language Basics (instructor: Kevin Bell, SLC)

This workshop will give non-programmers a look at the basic forms of Python   scripting, including control-flow logic, variables, data structures, statements,   operators, and modules. Attendees will follow along with examples that will get them started with this free, open-source language that is being embraced   by the GIS community. Keep in mind that this session will not touch upon GIS work, but is intended as an overview of the   language.

- WORKSHOP FULL - Python II: Pairing with ArcGIS (instructor: Kevin Bell, SLC)

Now that you've seen the language in action, we'll apply it to GIS work.This   workshop is meant to whet your appetite for ESRI's 2 day class "Introduction   To Geoprocessing Scripts Using Python." Topics will include accessing ArcGIS tools and batch processing, interpreting the Geoprocessor Object Model,   and an overview of the strengths and weakness of python compared to other   types of programming.   A limited number of laptops will be provided for both workshops on a first   come, first serve basis

 VBA + Geodatabase (instructor: Bert Granberg, AGRC)

Visual Basic for Applications (VBA) is the most powerful language for writing custom code within ArcMap and ArcCatalog. This workshop will demonstrate the use of some simple VBA scripts that employ the Geodatabase ArcObjects to do things not easily done in the basic user interfaces. The overall goal is to introduce basic concepts and provide resources that get you up and running with VBA.

Working with Spatial Data (instructor: Heather Paskevic, ESRI) This introductory level workshop will review some available sources of public GIS data and describe the workflow and challenges involved in bringing that data into your ArcGIS Desktop project. This workshop is designed for users who are relatively new to working with ArcGIS Desktop or who haven't worked with public data sources.